APPENDIX IX

Magpie 2006 ILI Inspection: Executive Summary Report. (11+cover sheet).

P-11+10/EV

Appendix IX e Summary

Run Informati

Dixie Pipeline Company

Hattiesburg Station to Demopolis Station
12 in Propage

	Launcher	Receiver	12 in Fropane
Location	Hattiesburg Station	Demopolis Station	
Date / Time	3/29/2006 10:01:40 AM	3/30/2006 3:21:00 PM	
Stationing	19397+61	25757+65	
GPS - LAT	31.3762333	32.509066667	
GPS - LONG	-89.2687333	-87.770483333	•
Duration of run - Hours	29.32	Average Velocity:	6.05 Ft/sec
Distance	639,016.00 ft	Maximum Velocity:	11.79 Ft/sec
Magpie On-site Representative:	Magpie Data A	· · · · · · · · · · · · · · · · · · ·	Tracking by: Dixie Pipeline Company
Inspection Findings			g /
Current Established Maximum Operating Pressure of Pipeline: 1,45 Welds detected 11.944 Valves de Casings detected 26 Tees dete Anomalies where P' <p*: 6<="" th=""><th>tected 25 Fittings detec</th><th>cted 36 Repairs detected detected 1,106 Meta</th><th>thickness between pits</th></p*:>	tected 25 Fittings detec	cted 36 Repairs detected detected 1,106 Meta	thickness between pits
1600 1400 0 1200 0 140000 280000 Pipeline D	420000 560000 700000 istance	100% 80% 60% 40% 20% 0% 140000	280000 420000 560000 700000 Pipeline Distance

^{*} The number of anomalies where P (calculated safe max, pressure for an anomaly) is less than P (current etablished maximum pressure of pipeline) - see ASME B31G

Inspection Details

A total of 758 metal loss groups (155 Internal / 603 External) were detected on the inspection survey, of which the deepest is reported at 68%. Using an established maximum operating pressure of 1,454 psi, 6 of the metal loss features appear to be pressure reducing.

Inspection data was obtained for the full length (639,016 feet / 121.03 miles) of the survey. The quality of the inspection data is satisfactory for a comprehensive assessment of this pipeline segment.

Magpie's Deformation Pig inspected this line for reductions on March 28, 2006, prior to the MFL inspection. Ten (10) dents over 0.25 inch and two (2) dents under specification with metal loss were found in the inspection and are correlated into this report. The reamaining deformations that were found under the 0.25 inch specification were compared with the MFL run and found not to be associated with any metal loss.

Magpie's® Deformation tool had one damaged sensor on this run (# 13 out of 40 sensors) that failed at the beginning of the run and remained inoperable for the remainder of the pipe line segment. One (1) anomaly was identified that was affected by this sensor (0.26", 345609.5 feet). It has been manually sized to ensure accouracy. A "Failed Sensor DEF" letter was sent to Enterprise seeking permission to continue analysis on this run. Approval was received on April 18, 2006 from H. Buford Barr, Manager, Pipeline Integrity. A printed copy of this letter can be found under the "Inspection Summary" tab immediately following the Executive Summary. A "Miscellaneous" mark has been made in Pigtrap where sensor #13 passes through the anomaly.

The MOP for this section from Hattiesburg to Demopolis has four different segments with four different pressures from 1429 to 1454 psi. All the calculations are based on the highest MOP of 1454 psi.

Hattiesburg to Yellow Creek - 1454 psi (Hattiesburg - MP 367.5) Yellow Creek to Carmichael - 1429 psi (Yellow Creek - MP 406.2) Carmichael to Butler - 1448 psi (Butler - MP 443.8) Butler to Demopolis - 1435 psi (Demopolis - MP 487.8)

Using the GPS data provided for markers and valves, including launch and receive, approximate GPS coordinates are provided for each weld, group (metal loss), deformation and any other feature along the pipeline route. Included on the report CD is a map file which graphically shows the position of Valves, Markers and welds. GPS accuracy is determined by the accuracy of the GPS data provided as well as the accuracy of the gyroscopes and accelerometers on-board the inspection tool. Coordinates are provided to assist in determining the general location of features, and are not intended to provide exact coordinates for locating defects.

Executive Summary - Deformation Inspection

Run Information

Dixie Pipeline Company

Hattiesburg Station to Demopolis Station
12 in Propane

	Launcher	Receiver	12 in Propane
Location	Hattiesburg Station	Demopolis Station	
Date / Time	3/27/2006 10:44:05 AM	3/28/2006 4:04:00 PM	
Stationing	19397+61	25757+65	
GPS - LAT	31.3762333	32.5090666	
GPS - LONG	-89.2687333	-87.77048333	
Duration of run - Hours	29.34	Average Velocity:	6.05 Ft/sec
Distance	639.016.00 ft	Maximum Velocity:	8.77 Ft/sec
Magpie On-site Representative:	Magpie Da	ta Analyst: Tool 7	Fracking by: Dixie Pipeline Company
Inspection Findings			
Dents detected 12 Ovaliti	es detected 0 Expan	sions detected 0 Heavy weld de	etected 0 Valves detected 25
0.60 0.50 0.40 0.30 0.20 0.10 0.00	· .·	Orientation (Degrees) 360 315 315 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	· · · · · · · · · · · · · · · · · · ·
0 100000 200000 300i Pipeline I	• • • • • • • • • • • • • • • • • • • •	0000 0 100000 200000 Pip) 300000 400000 500000 600000 peline Distance

Inspection Details

A total of 12 deformations (12 dents) were detected on the inspection survey, of which the deepest is reported at 0.51 in.

Inspection data was obtained for the full length (639,016 feet / 121.03 miles) of the survey. The quality of the inspection data is satisfactory for a comprehensive assessment of this pipeline segment.

One sensor (#13) failed at the beginning of the run and remained inoperable for the remainder of the pipeline segment. A "Failed Sensor DEF" letter was sent to Enterprise seeking permission to continue analysis on this run. Approval was received on April 18, 2006 from H. Buford Barr, Manager - Pipeline Integrity. A printed copy of this letter can be found under the "Inspection Summary" tab immediately following the Executive Summary.





Failed Sensor DEF

Dixie 12" Hattiesburg Station to Demopolis Station

03/28/2006 Trap Date

Magpie's® Deformation tool had one damaged sensor on this run (# 13) out of 40 sensors. The sensor failed at the beginning of the run and remained inoperable for the remainder of the pipe line segment. The total length of the segment is 639,015.8 feet. This technology is a direct measurement of the internal pipe bore. The sensor spacing on this tool is one sensor every one inch around the circumference of the pipe wall. This sensor density is twice any other tool on the market. A damaged sensor leaves a gap of about 1.5" that is not measured for dents. It is our experience that there are virtually no occurrences of pipeline dents having a width of 1.5" or less. Dent indications with involvement of less than 3 arms (3" width) are very rare. The loss of one sensor thus should not affect the detection of any dents and will impact the depth sizing of a dent only if the maximum bore restriction occurs over this sensor. In this case the dent would be manually scanned by the data analyst to ensure proper sizing, and the dent description in the preliminary and final reports would note the involvement of a damaged arm. The only pipeline features we usually see on one channel, which could be missed, are a pig bar in a tee, the lever of a "pig sig" on the top of the pipe, or small (1" or smaller) mill anomalies such as a scab on the internal surface of the pipe wall that has partially peeled and is protruding into the pipeline bore.

Because of our confidence, we feel that a rerun is not necessary for this line segment. On this particular Enterprise run, there were two deformations that were affected by the failed arm. Both of these deformations were manually sized to ensure accuracy.

As an additional test, the MFL data for this line segment was also analyzed for dent signatures. MFL tools can detect dents in pipelines, but cannot quantify the depth of the dent. The MFL tool did not detect any additional dents not detected by the deformation tool in this line segment. If an additional dent was found that had occurred over the damaged deformation sensor, then the dent depth could not have been accurately measured, but since no additional dents where detected, we feel we have detected and sized all dents per the specification of our deformation tool located in this pipeline segment.

Therefore, we stand by the results of this inspection and feel that we have met the specifications of our Deformation tool.

Should you have any additional question please feel free to contact me at (800) 922-6088, ext. 1401.

V.P., Magpie Systems, Inc.

Magpie Systems Inc.

Immediate Repairs

Metal Loss

% of
Est. psi
Time Dist. (ft.) Depth Length Width Orient. PSI (P') (P'P) Latitude Longitude

Page 1 of 1

Dixie - 12" IDOD Hattiesburg Station to Demopolis Station

Nothing found in this pipeline inspection meets the criteria for Immediate Repair conditions relating to METAL LOSS.

Magpie Systems Inc.

Dixie - 12" IDOD Hattiesburg Station to Demopolis Station Magpie Correlated Deformation with associated metal loss Magpie Correlated Deformation with associated metal loss On a Weld? Description ŝ ŝ Metal Time Dixt. (ft.) Depth(in) Depth(%) Orientation Loss? Yes Yes 348 324 Immediate Repairs (if anomaly falls in an HCA area) 1.42% 0.58% Sorted by depth, then distance 0.070 0.170 Condition 1C Summary Number: 2 467,964.0 14000010 78,641.3 467,964.7 78,641.2 Condition 1C aı 14000009 Dents

Immediate Repair Conditions

Condition: 1C A dent located on top of the pipeline (above the 4 and 8 o'clock positions) that has any indication of metal loss, cracking or a stress riser.

Disclaimer: It is not possible for Magpie inline inspection tools to determine whether there is cracking evidence associated with a deut or whether the dent is on a stress riser.

Magpie Systems Inc.

Page 1 Dixie - 12" IDOD Hattiesburg Station to Demopolis Station Magpie Correlated Deformation with associated metal loss Magpie Correlated Deformation Magpie Correlated Deformation Description Weld? On a ŝ £ ŝ Metal Time Dist. (ft) Depth(in) Depth(%) Orientation Loss? Yes ŝ 욷 O က 177 60 Day Repairs (if anomaly falls in an HCA area) 3.00% 2.50% 4.25% Number of Dents: 2 Sorted by depth then distance 0.36 0.51 0.30 390,966.6 60,726.5 359,711.8 62, 182. 1 Condition 2A Summary Condition 2B Summary 12,404.9 65,819.6 Condition 2A Condition 2B 14000006 2 14000002 14000007 Dents

60 Day Repair Conditions

Number of Dents: 1

Condition: 2A A dent located on top of the pipeline (above the 4 and 8 o'clock positions) with a depth greater than 3% of the pipeline diameter (greater than 0.250 inches in depth for a pipeline diameter less that Nominal Pipe Size (NPS) 12).

Condition: 2B A dent located on the bottom of the pipeline that has any indication of metal loss, cracking or a stress riser.

Disclaimer; It is not possible for Magpie inline inspection tools to determine whether there is cracking evidence associated with a dent or whether the dent is on a

Magpie Systems Inc.

Dixie - 12" IDOD Hattiesburg Station to Demopolis Station Magpie Correlated Deformation Description On a Weld? ş Metal Loss? 욷 Time Dist. (ft) Depth(in) Depth(%) Orientation 8 180 Day Repairs (if anomaly falls in an HCA area) 2.75% Sorted by depth then distance 0.33 18,309.0 5,564.5 Condition 3B aı 14000000 Dents

Magpie Correlated Deformation

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63

2.42%

0.29

309,782.2

52,771.1

14000004

Magpie Correlated Deformation

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45

2.17%

0.26

62,182.5

12,405.0

14000003

Magpie Correlated Deformation

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117

2.17%

0.26

345,609.3

58,423.8

14000005

Magpie Correlated Deformation

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276

2.17%

0.26

574,526.8

97,196.8

14000011

Magpie Correlated Deformation

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342

2.08%

0.25

463,014.6

77,831.3

14000008

Page 1

Number of Dents: 6 Condition 3B Summary

180 Day Repair Conditions

Condition: 3B A dent located on top of the pipeline (above the 4 and 8 o'clock positions) with a depth greater than 2% of the pipeline's diameter (0.250 inches in depth for a pipeline diameter less than NPS 12).

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180 Day Repairs (if anomaly falls in an HCA area)

Latitude Longitude Est. psi (P'/P) Width Orient. PSI (P') Sorted by depth then distance Time Dist. (ft.) Depth Length Metal Loss QI

Dixie - 12" IDOD Hattiesburg Station to Demopolis Station

Condition: 3D	3D									
40000088	6,556.2	24,634.8	38.0%	35.11	23.09	15	1211	83.3%	31.41433	-89,21236
40000518	66,170.1	393,135.0	30.5%	15.43	11.55	186	1360	93.5%	32.07995	-88.34845
40000621	90,312.9	531,249.9	48.0%	3.06	7.38	180	1370	94.2%	32.31260	-88.00817
40000151	9,263.7	41,962.5	26.6%	20.62	15.39	36	1398	96.1%	31,44831	-89.17541
40000728	107,391.4	631,826.0	31.8%	5.89	6.73	246	1419	%9:26	32.50557	-87.78872
40000149	9,263.0	41,957.7	22.3%	54.78	20.53	36	1428	98.2%	31.44830	-89.17543
Condition	Condition 3D Summary	ľ.	Number: 6		;					

180 Day Repair Conditions

Condition: 3D A calculation of the remaining strength of the pipe shows an operating pressure that is less than the current established maximum operating pressure at the location of the anomaly.







Certificate of Calibration

This document certifies that the tool described herein has been constructed, tested and calibrated according to specified standards, and is validated to be within calibration and performance limits as described in published performance specifications. Once the calibration on this tool is completed and checked by Magpie® the tool is validated to be within calibration and serviceable for extended periods of time. Upon return to Magpie® the tool is then verified to still be within calibration parameters.

Dixie Pipeline Hattiesburg Station to Demopolis Station

Date tool was run......03/28/2006

Magpie® Pipeline Inspection Tool I.D 12Dea2

Tool Size (nominal pipe size) 12"

Magpie® Calibration Standard used: DEF CALTEST CSV

Factors Influencing Performance

As referenced in the Magpie® tool specification, speed has a marked impact on data quality. Tool velocity exceeding 10 mph and tool surging caused by low or varying line pressure can negatively impact the inspection data. Low rates of speed do not adversely impact the capability of the tool to record and size indications as long as the tool moves. There were no areas of over speed in the inspection of this line.

Should you have any additional question please feel free to contact me at (800) 922-6088, ext. 1407.

Manager of Quality & Compliance

